

Horizon



AF-78 series

Cross Folder AF-784AKLL / 784AKL / 762KLS

**Accurate Cross Folding with
Easy Operation**



For the Chinese market only

8-page, 16-page, and 32-page cross folding

The AF-78 series folders are specially built

Features

1. A wide variety of folding patterns

8-page, 16-page, and 32-page cross folding can be processed by the combination of the parallel buckle fold plates and the cross-fold knife to fit your needs. *Only for AF-784AKLL

2. User friendly Operation

Each buckle plate and knife stopper in the AF-784AKLL / 784AKL is set automatically by selecting the sheet size and fold pattern on the LCD touchscreen.

3. Three types of feed units

3 different types of feed units can be selected for various work environments: Flat Pile Feeder, Pallet Pile Feeder and Round Pile Feeder (For AF-762KLS, the Round Pile Feeder is not available.)

4. Various Options

Various options such as the MKU-38 mobile knife unit and the T-564A automated buckle unit are available to handle a wide range of applications.

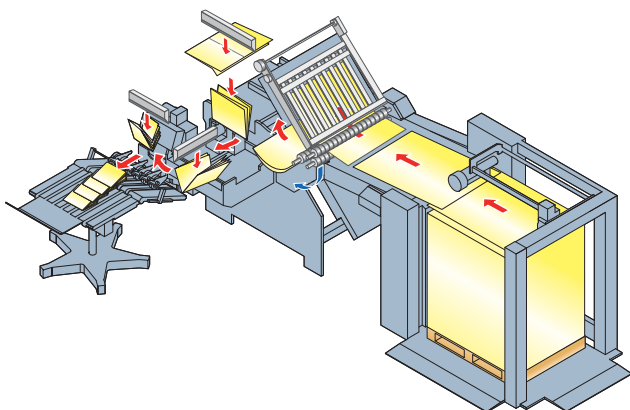
5. JDF compatibility

These folders can be enhanced with JDF workflow from upstream to the postpress using pXnet bindery control system.

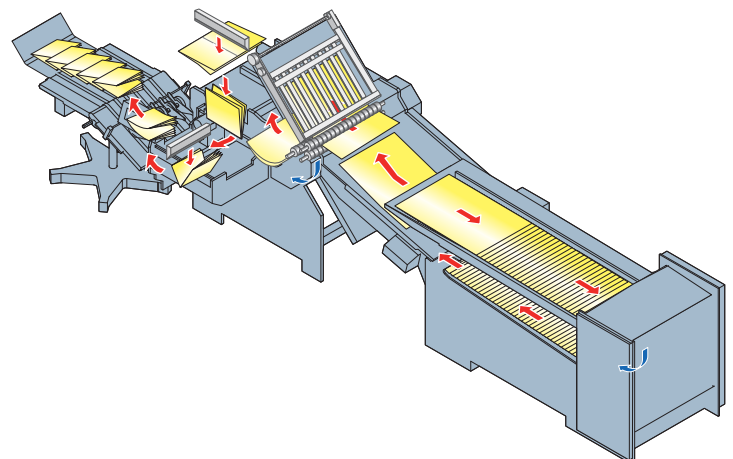
Differences of AF-78 Series Folders

	Three Knives	Two Knives
Four Buckles	AF-784AKLL (Automated Setup)	AF-784AKL (Automated Setup)
Two Buckles	N/A	AF-762KLS (Manual Setup, Equipped with Press Stacking & Bundling Unit)
Fold Patterns	8-page Cross Fold 16-page Cross Fold 32-page Cross Fold	8-page Cross Fold 16-page Cross Fold

Sheet Flow



AF-784KLL with Pallet Pile Feeder (32-page cross folding)



AF-784KL with Round Pile Feeder (16-page cross folding)

are produced with high precision.
for signature production.

Flat Pile Feeder

The flat pile feeder is the standard feeder. The flat pile feeder, feeds sheets that are loaded on the table. The AF-78 series folders are equipped with one table.



AF-784AKL with Flat Pile Feeder + LCV-76

Pallet Pile Feeder

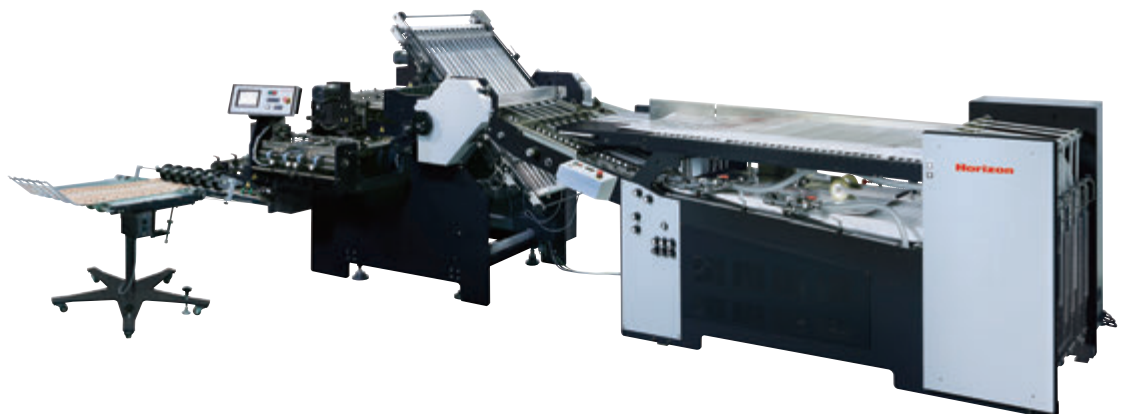
The pallet feeder accepts piled pallets direct from the printing press to maximize operator convenience and to minimize production time.



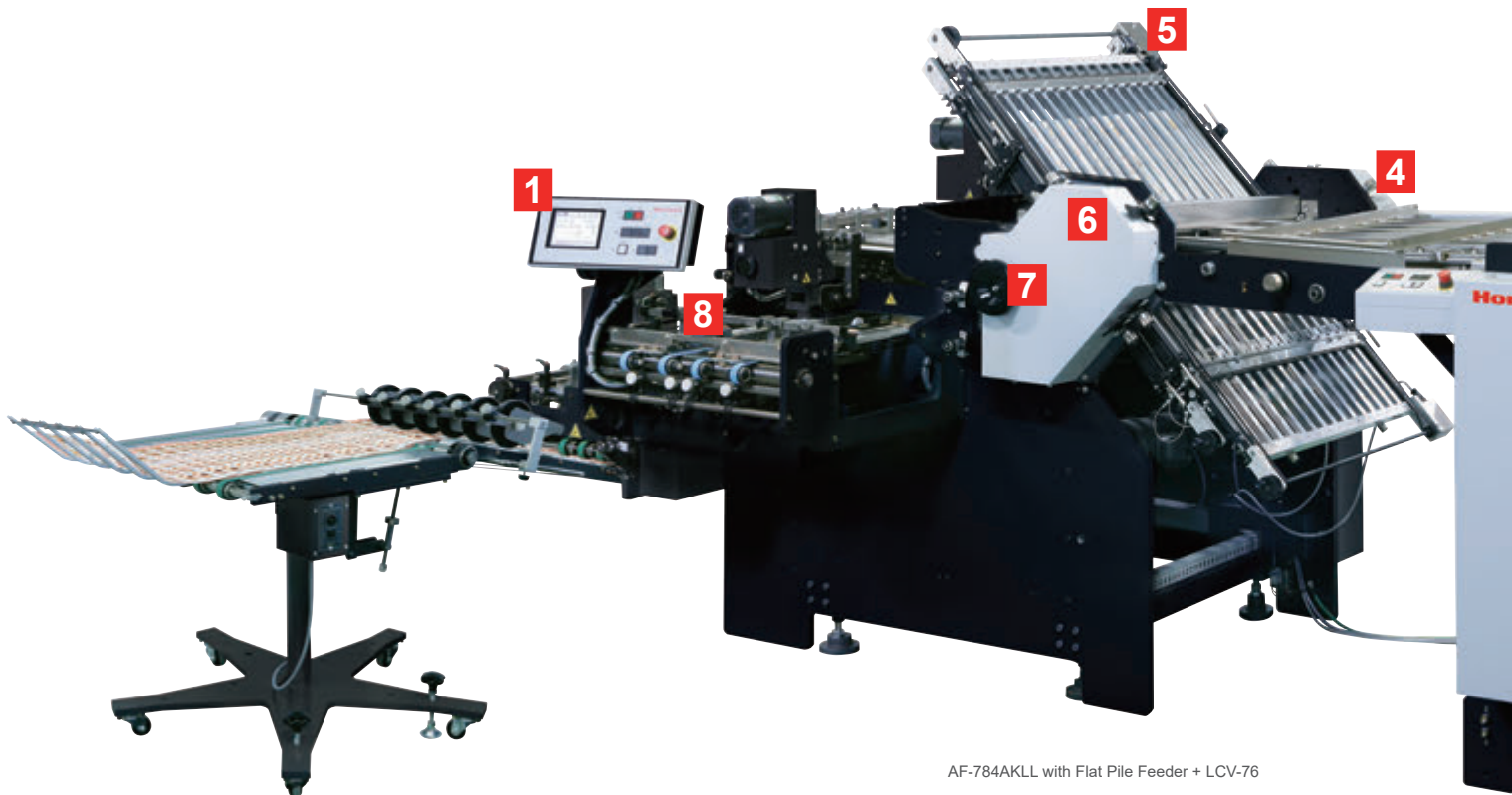
AF-762KLS with Pallet Pile Feeder

Round Pile Feeder

The round pile feeder unit can feed a wide range of sheets including prefolded, preperforated or prepunched sheets. Continuous loading is available for non-stop production.



AF-784AKLL with Round Pile Feeder + LCV-76



AF-784AKLL with Flat Pile Feeder + LCV-76

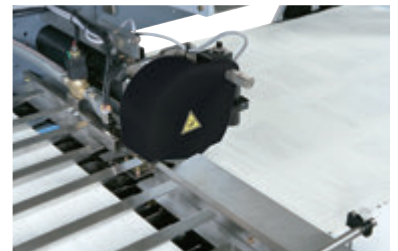
1 Color Touch Panel Display

The color touch panel is icon-based for user-friendly operation. Folding speed, feed settings and knife timing can be memorized for quick and easy recall of regular jobs. The number of folding sheets for each job and operating time can be recorded.



3 Feed Rotor

Quality polyurethane rotor provides high speed and stable feeding without scratching.



Supersonic Sensor

Pallet Pile Feeder, Flat Pile Feeder for the AF-762KLS

The supersonic double feed sensor works through the transmission of supersonic wave. Its advanced detection ensures accurate double feed detection even with a solid black printed sheet.



Mechanical Double Feed Detection

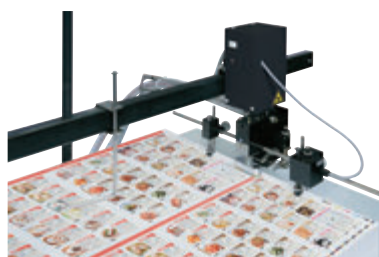
Flat Pile Feeder, Round Pile Feeder

Double-feeding is prevented by simply inserting the sheet under the lever for double feed detector.



2 Suction Head

Innovative new suction head design provides accurate sheet separation and pick-up. Blowing air volume and height of the suction head can be adjusted according to the sheet condition.



Flat Pile Feeder



6 Folding Rollers

The combination soft polyurethane soft grip rubber and steel rollers are employed for consistent folding and simple setup. Folding rollers are driven with accurate helical gears for maximum folding precision and quiet operation. The flexible cross couplings are employed for minimal wear.



7 Perforation

Perforation, slit perforation, scoring, slitting and strip trimming can be performed. Newly developed blades enables tight folding. 3 sets of perforation blades are provided as standard equipment. Optional blades are also available.



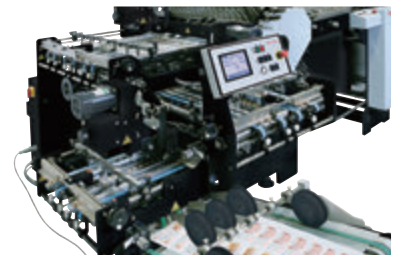
4 Sheet Transportation

The side lay guide is coated with a special anti-static plating. Newly-designed rigid side lay guide ensures stable transportation and accurate registration of a wide range of paper stocks.



8 Knife Fold Section

Timing and tilt of the knife can be adjusted easily. Newly developed knife drive mechanism is employed for durable knife drive performance.



5 Buckle

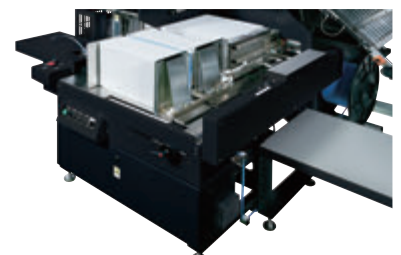
Specially-coated buckle plates minimize paper friction to maintain fold accuracy without scratching.



9 Bundling Section (Only for the AF-762KLS)

The vertical stacker with bundling unit is included as standard equipment for the AF-762KLS. This unit presses and bundles each stack without time-consuming manual steps.

A folded sample can be delivered by pressing the sample button. In case soft sheets cannot be stacked vertically, the sheets can be delivered to the conveyor.

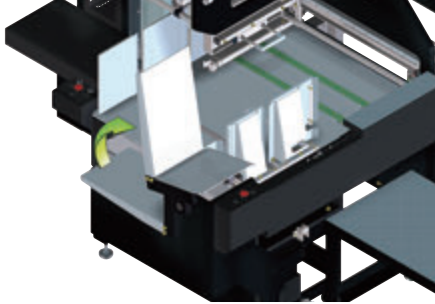


Options

We have a large choice of optional accessories other than those listed below. Contact your local dealer about required options for meeting your needs.

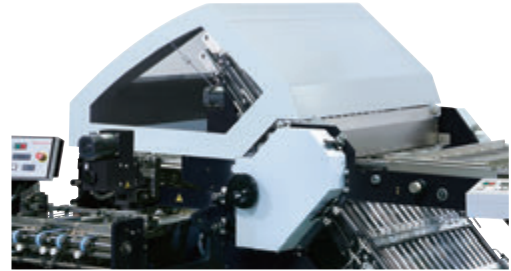
Signature Rotating Unit (Only for the AF-762KLS)

Bundled signatures can be rotated 90 degree for easy unloading.



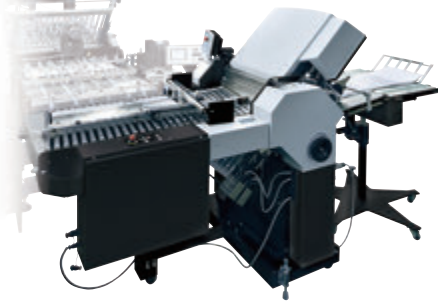
Sound Proof Cover (For AF-784AKL/AF-784AKLL)

Sound proof cover for quieter operation.
(The AF-762KLS is equipped with the cover as standard.)



Automated Buckle Unit T-564A/T-566A

Free standing buckle folding unit is available in 4 buckle and 6 buckle modules. All buckle plates can set up automatically depending on the selected sheet size and folding patterns.



Mobile Knife Fold Unit MKU-38

Compact and user friendly mobile knife unit. Knife rotating feature enables folding up or down with quick and simple change-over.



Mobile Knife Fold Unit MKU-54T

The MKU-54T is mobile knife unit equipped with the buckle plate below the knife. It is capable of the letter fold.



Press Stacker PST-44/44L

The first rollers remove the air and the second rollers powerfully compress the signatures for reduced bulk and tighter folds. Signatures can be offset separated individually or by group, depending on job requirements.



Press Stacker PST-66

Strong press at maximum 1.2 ton is applied to produce flat signature and folded pieces. First roller removes the air and second roller compresses the signature to reduce bulk. Batch separation is available to maximize productivity.



Press Stacker with Pile Delivery PSX-56/56R

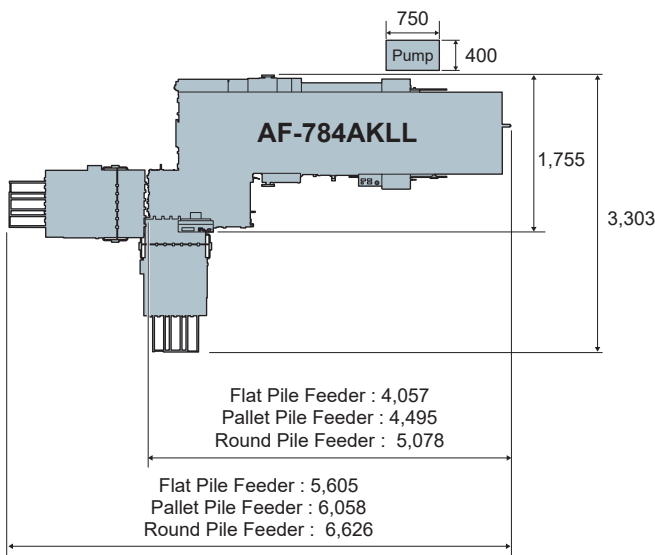
Stacked signatures or booklets are delivered to a comfortable height for easy packaging. Applications can be stacked 1-up, 2-up or 3-up for efficient production. Rigid, large diameter rollers apply 1.2 tons of pressure for crisp, tight and flat folds.



Machine Dimension (Unit : mm)

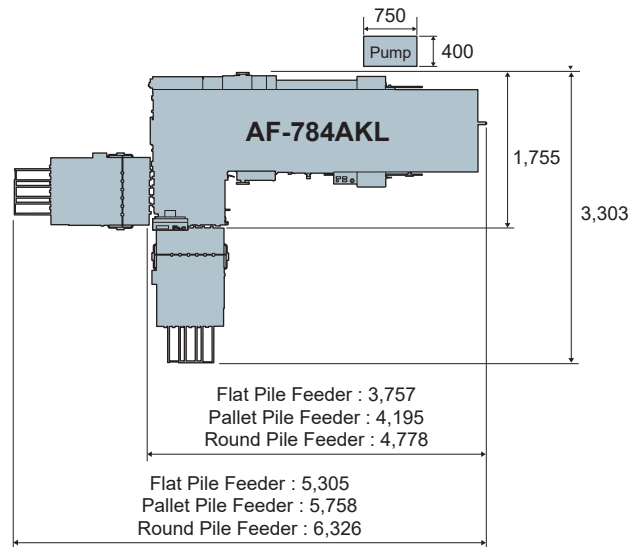
AF-784AKLL

(Top View)



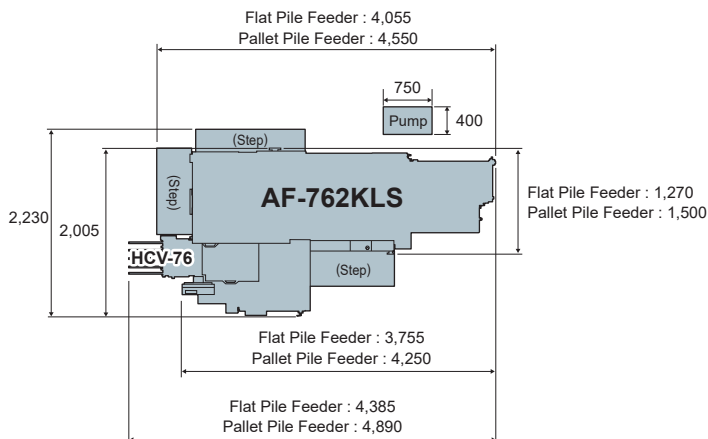
AF-784AKL

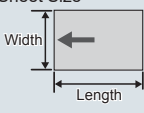
(Top View)



AF-762KLS

(Top View)



Model		AF-784AKLL	AF-784AKL	AF-762KLS
Machine Configuration		4 Buckles + 3 Fold Knives	4 Buckles + 2 Fold Knives	2 Buckles + 2 Fold Knives
Sheet Size  Width x Length	Flat Pile Feeder	Max. 778* x 1,100 mm or 30.625" x 43.310" (*When doing knife folding: 760 mm or 29.920")		Max. 760 x 950 mm or 29.920" x 37.400"
		Min. 210 x 210 mm or 8.270" x 8.270"		
	Pallet Pile Feeder	Max. 778* x 1,100 mm or 30.625" x 43.310" (*When doing knife folding: 760 mm or 29.920")		Max. 760 x 1,100 mm or 29.920" x 43.310"
		Min. 210 x 210 mm or 8.270" x 8.270"		
Round Pile Feeder	Max. 760 x 1,100 mm or 29.920" x 43.310"		-	
	Min. 210 x 148 mm or 8.270" x 5.830"		-	
Sheet Weight Range		Uncoated Paper 35 to 209 gsm Coated Paper 50 to 232 gsm		
Belt Speed		30 to 240 meters per minute 99 to 787 feet per minute		
Production Speed		Suction Head 40,000 cycles per hour Knife 28,000 cycles per hour		Suction Head 40,000 cycles per hour Knife 30,000 cycles per hour
Buckle Fold Length		1st Buckle: 60 to 560 mm or 2.37" to 22.04" 2nd Buckle: 30 to 515 mm or 1.19" to 20.27" 3rd Buckle: 30 to 480 mm or 1.19" to 18.89" 4th Buckle: 30 to 330 mm or 1.19" to 12.99"		1st Buckle: 60 to 560 mm or 2.37" to 22.04" 2nd Buckle: 60 to 560 mm or 2.37" to 22.04"
Voltage/Frequency		3-phase 200 to 220 V, 50 or 60 Hz 3-phase 380 / 400 / 415 V, 50 or 60 Hz (Transformer is an option)		3-phase 200 V, 50 or 60 Hz 3-phase 220 V, 50 or 60 Hz 3-phase 400 V, 50 or 60 Hz (Transformer is an option)
Machine Dimensions	Flat Pile Feeder	W4,057 x D1,755 x H1,670 mm or W159.8" x D69.1" x H65.8"	W3,757 x D1,755 x H1,670 mm or W148.0" x D69.1" x H65.8"	(Including step) W4,055 x D2,230 x H1,950 mm or W159.7" x D87.8" x H76.8" (Without step) W3,755 x D2,005 x H1,950 mm or W147.9" x D79.0" x H76.8"
		W4,495 x D1,755 x H1,670 mm or W177.0" x D69.1" x H65.8"	W4,195 x D1,755 x H1,670 mm or W165.2" x D69.1" x H65.8"	(Including step) W4,550 x D2,230 x H1,950 mm or W179.2" x D87.7" x H76.8" (Without step) W4,250 x D2,005 x H1,950 mm or W167.4" x D79.0" x H76.8"
	Round Pile Feeder	W5,078 x D1,755 x H1,670 mm or W200.0" x D69.1" x H65.8"	W4,778 x D1,755 x H1,670 mm or W188.2" x D69.1" x H65.8"	-
	Conveyor (LCV-76)	W1,548 x D848 x H1,250 mm or W61.0" x D33.4" x H49.3"		-
Vacuum Pump*1		Flat Pile Feeder / Pallet Pile Feeder: Option Exhaust Velocity: 60 m ³ per hour or more Vacuum: -60 kPa Blower: +60 kPa Power Consumption: 3.0 / 3.6 kW (50 or 60 Hz) Voltage / Frequency: Delta Connection 230 / Y400 V +/- 10%, 50 Hz Delta Connection 265 / Y460 V +/- 10%, 60 Hz		Standard
		Round Pile Feeder: Standard		-

*1 Use the vacuum pump with this specifications. The vacuum pump can be purchased from Horizon International Inc. Model P-76 (For 3-phase).

*1 The Transformer can be purchased from Horizon International Inc. Model TR-4007 (For 3-phase).

*The machine design and specifications are subject to change without any notice.

*Specifications may vary depending on the job, paper quality, environmental influences, and various other factors.

Please do a test run before starting production.

Distributed by

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